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PTO/SB/05 (4/98)
Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. 500.38035X00

First Inventor or Application Identifier Hiroyuki KURUMATANI

Title See 1 in Addendum

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. ☒ Specification [Total Pages 67]
(preferred arrangement set forth below)

- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed).
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 19]

4. Oath or Declaration [Total Pages 2]

- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
- i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

* NOTE FOR ITEMS 1 & 13 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY
FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT
IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

5. ☐ Microfiche Computer Program (Appendix)

6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

- a. ☐ Computer Readable Copy
- b. ☐ Paper Copy (identical to computer copy)
- c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. ☒ Assignment Papers (cover sheet & document(s))

8. ☐ 37 C.F.R. § 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney

9. ☐ English Translation Document (if applicable)

10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations

11. ☐ Preliminary Amendment

12. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

13. ☐ * Small Entity Statement(s) ☐ Statement filed in prior application
(PTO/SB/09-12) Status still proper and desired

14. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)

15. ☒ Other: See 2 in Addendum

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: /

Prior application information: Examiner

Group / Art Unit:

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

020457

or ☐ Correspondence address below

(Insert Customer No. or Attach bar code label here)

Name

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

Carl I. Brundidge

Registration No. (Attorney/Agent)

29,621

Signature

Date

12/22/99

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

FEE TRANSMITTAL for FY 1999

Patent fees are subject to annual revision.
Small Entity payments must be supported by a small entity statement,
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

Complete if Known

Application Number _____
Filing Date December 22, 1999
First Named Inventor Hiroyuki KURUMATANI
Examiner Name _____
Group / Art Unit _____
Attorney Docket No. 500.38035X00

TOTAL AMOUNT OF PAYMENT (\$878.00)

JCS94 U.S. PTO
09/468948
12/22/99

METHOD OF PAYMENT (check one)

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 01-2135
Deposit Account Name Antonelli, Terry, Stout & Kraus, LLP

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

2. ☒ Payment Enclosed:
☒ Check ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

| Large Fee Code (\$) | Entity Fee Code (\$) | Small Fee Code (\$) | Entity Fee Code (\$) | Fee Description | Fee Paid |
|---------------------|----------------------|---------------------|----------------------|------------------------|----------|
| 101 | 760 | 201 | 380 | Utility filing fee | 760.00 |
| 106 | 310 | 206 | 155 | Design filing fee | |
| 107 | 480 | 207 | 240 | Plant filing fee | |
| 108 | 760 | 208 | 380 | Reissue filing fee | |
| 114 | 150 | 214 | 75 | Provisional filing fee | |

SUBTOTAL (1) (\$760.00)

2. EXTRA CLAIM FEES

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 12 | -20** = 0 | 18.00 | 0.00 |
| 4 | -3** = 1 | 78.00 | 78.00 |
| Multiple Dependent | | | 0.00 |

**or number previously paid, if greater; For Reissues, see below

| Large Fee Code (\$) | Entity Fee Code (\$) | Small Fee Code (\$) | Entity Fee Code (\$) | Fee Description |
|---------------------|----------------------|---------------------|----------------------|--|
| 103 | 18 | 203 | 9 | Claims in excess of 20 |
| 102 | 78 | 202 | 39 | Independent claims in excess of 3 |
| 104 | 260 | 204 | 130 | Multiple dependent claim, if not paid |
| 109 | 78 | 209 | 39 | ** Reissue independent claims over original patent |
| 110 | 18 | 210 | 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$78.00)

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Fee Code (\$) | Entity Fee Code (\$) | Small Fee Code (\$) | Entity Fee Code (\$) | Fee Description | Fee Paid |
|---------------------------|----------------------|---------------------|----------------------|--|----------|
| 105 | 130 | 205 | 65 | Surcharge - late filing fee or oath | 0.00 |
| 127 | 50 | 227 | 25 | Surcharge - late provisional filing fee or cover sheet. | 0.00 |
| 139 | 130 | 139 | 130 | Non-English specification | 0.00 |
| 147 | 2,520 | 147 | 2,520 | For filing a request for reexamination | 0.00 |
| 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examiner action | 0.00 |
| 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action | 0.00 |
| 115 | 110 | 215 | 55 | Extension for reply within first month | 0.00 |
| 116 | 380 | 216 | 190 | Extension for reply within second month | 0.00 |
| 117 | 870 | 217 | 435 | Extension for reply within third month | 0.00 |
| 118 | 1,360 | 218 | 680 | Extension for reply within fourth month | 0.00 |
| 128 | 1,850 | 228 | 925 | Extension for reply within fifth month | 0.00 |
| 119 | 300 | 219 | 150 | Notice of Appeal | 0.00 |
| 120 | 300 | 220 | 150 | Filing a brief in support of an appeal | 0.00 |
| 121 | 260 | 221 | 130 | Request for oral hearing | 0.00 |
| 138 | 1,510 | 138 | 1,510 | Petition to institute a public use proceeding | 0.00 |
| 140 | 110 | 240 | 55 | Petition to revive - unavoidable | 0.00 |
| 141 | 1,210 | 241 | 605 | Petition to revive - unintentional | 0.00 |
| 142 | 1,210 | 242 | 605 | Utility issue fee (or reissue) | 0.00 |
| 143 | 430 | 243 | 215 | Design issue fee | 0.00 |
| 144 | 580 | 244 | 290 | Plant issue fee | 0.00 |
| 122 | 130 | 122 | 130 | Petitions to the Commissioner | 0.00 |
| 123 | 50 | 123 | 50 | Petitions related to provisional applications | 0.00 |
| 126 | 240 | 126 | 240 | Submission of Information Disclosure Stmt | 0.00 |
| 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | 40.00 |
| 146 | 760 | 246 | 380 | Filing a submission after final rejection (37 CFR 1.129(a)) | 0.00 |
| 149 | 760 | 249 | 380 | For each additional invention to be examined (37 CFR 1.129(b)) | 0.00 |
| Other fee (specify) _____ | | | | | 0.00 |
| Other fee (specify) _____ | | | | | 0.00 |

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$40.00)

SUBMITTED BY

Typed or Printed Name Carl I. Brundidge

Signature

Date 12/22/99

Complete (if applicable)

Reg. Number 29,621

Deposit Account User ID 01-2135

Addendum

1. METHOD AND APPARATUS FOR ELLIPTIC CURVE CRYPTOGRAPHY AND RECORDING MEDIUM THEREFOR
2. - Information Disclosure Sheet Under 37 CFR 1.56 W/Refs.